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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|--------------------------------------|-------------|----------------------|------------------------|------------------|
| 09/993,866 | 11/05/2001 | Seiji Hamada | JP20000342US1 | 8302 |
| 24852 | 7590 | 11/24/2004 | EXAMINER | |
| INTERNATIONAL BUSINESS MACHINES CORP | | | GOOD JOHNSON, MOTILEWA | |
| IP LAW | | | ART UNIT | PAPER NUMBER |
| 555 BAILEY AVENUE , J46/G4 | | | | |
| SAN JOSE, CA 95141 | | | 2672 | |

DATE MAILED: 11/24/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

| | | |
|------------------------------|--------------------------|---------------|
| Office Action Summary | Application No. | Applicant(s) |
| | 09/993,866 | HAMADA ET AL. |
| | Examiner | Art Unit |
| | Motilewa A. Good-Johnson | 2672 |

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 13 September 2004.
- 2a) This action is **FINAL**. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-19 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.
- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.

DETAILED ACTION

1. This office action is responsive to the following communication: Application, filed 11/05/2001; Request for reconsideration, filed 03/11/2004.
2. Claims 1-19 are pending in this application. Claims 1, 8 and 14 are independent claims.
3. The present title of this application is "Data Display System, Data Display Method, Computer System and Computer Program Product" (as originally filed).

Continued Examination Under 37 CFR 1.114

4. A request for continued examination under 37 CFR 1.114 was filed in this application after appeal to the Board of Patent Appeals and Interferences, but prior to a decision on the appeal. Since this application is eligible for continued examination under 37 CFR 1.114 and the fee set forth in 37 CFR 1.17(e) has been timely paid, the appeal has been withdrawn pursuant to 37 CFR 1.114 and prosecution in this application has been reopened pursuant to 37 CFR 1.114. Applicant's submission filed on 09/13/2004 has been entered.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

6. Claims 1-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Marshall et al., U.S. Patent Number 6,101,493, "Method and System for Displaying Related Information from a Database", class 707/3, in view of Peltonen et al., U.S. Patent Number 5,926,807, "Method and System for Effectively Representing Query Results in a Limited Amount of Memory", class 707/3

Regarding claim 1, Marshall discloses a computer system comprising: a display device having a display area on a display screen thereof, (a display device, col. 2, lines 2, lines 62-67, figures 1 and 10-14) wherein, out of target data to be displayed in said display area, one or multiple first data sets, the contents of which are actually displayed, (figures 1 and 10-14)

However, it is noted that Marshall fails to disclose one or multiple first predetermined abridged forms, which represent one or multiple first data groups of the target data other than said first data sets and the contents of which are not displayed, are present in said display area.

Peltonen discloses one or multiple first predetermined abridged forms, which represent one or multiple first data groups of the target data other than said first data sets and the contents of which are not displayed (col. 6, lines 4-51, querying a database and dividing the results into segments, which Examiner interprets as an abridged form, and retrieving partial or minimal segments of a smaller portion of data)

It would have been obvious to one of ordinary skill in the art at the time of the invention of Marshall display of target data, to include abridged forms, i.e. segmented

data, as disclosed in Peltonen, because reduced data conserves memory and further reduces the size of the representation of the query result.

Regarding claim 2, Marshall discloses first data sets and first said data groups are sorted in the ascending order or in the descending order, and said first data sets and said first predetermined abridged forms are presented in sorting orders thereof. (first set of records are retrieved from the database, sorted and then displayed, col. 8, lines 20-26)

Regarding claim 3, Marshall fails to disclose first data sets include the first and the last data of said target data.

Peltonen discloses first data sets include the first and the last data of said target data (col. 9, lines 5-10, each segment corresponds to a particular sub range, for example a first key value to a last key value)

Regarding claim 4, Marshall discloses operation of selecting one or multiple second data sets, the contents of which are actually display, and one or multiple second which represent one or multiple second data groups of the target data other than said first and second data sets and the contents of which are not displayed, are presented together . . . (interlinking display areas with related information having a first display area, second and third display area and selecting in any area modifies the other areas, col. 5, lines 7-16)

However, it is noted that Marshall fails to disclose predetermined abridged forms of which the data set and contents are not displayed.

Peltonen discloses one or multiple first predetermined abridged forms, which represent one or multiple first data groups of the target data other than said first data sets and the contents of which are not displayed (col. 6, lines 4-51, querying a database and dividing the results into segments, which Examiner interprets as an abridged form, and retrieving partial or minimal segments of a smaller portion of data)

It would have been obvious to one of ordinary skill in the art at the time of the invention of Marshall display of target data, to include abridged forms, i.e. segmented data, as disclosed in Peltonen, because reduced data conserves memory and further reduces the size of the representation of the query result.

Regarding claim 5, Marshall discloses first predetermined displays and said second predetermined displays are correlated with the first data rows and the number of data rows of said first data groups and said second data groups, respectively. (first display area having, i.e. correlated with, a first display of a first type of data and a second display are displaying a second type of data in multiple rows and columns, col. 3, lines 11-31)

Regarding claim 6, Marshall discloses selection of said first data sets or said second data sets is a data entry operation. (selection of one or more entries by a point device, list boxes drop down, or a key, therefore performing a data entry operation, col. 7, lines 1-21)

Regarding claim 7, Marshall discloses target data is recorded in a different computer system connected to said computer system via communication means . . . not transmitted from said different computer system . . . (data is obtained from tables in a

database associated with the computer system, col. 3, lines 46-59, thus making it inherent that the data may be retrieved from a different computer)

Regarding claim 8, Marshall discloses a data display method . . . comprising the steps of: identifying first data sets, which are included in said target data to be displayed in said display area and the contents . . . (a first set of records are retrieved from a database, col. 8, lines 15-24); identifying first data groups, which are included in said target data other than said first data sets . . . (a key used to represent the user selection in the database associated with a list box, col. 8, lines 1-30); reading said first data sets from a recording area wherein said target data is stored and . . . (displaying the list box for the total records counted and updated the list box with a total number of records retrieved, col. 8, lines 28-39)

However, it is noted that Marshall fails to disclose presenting first predetermined abridged forms representing said first data groups in said display area.

Peltonen discloses one or multiple first predetermined abridged forms, which represent one or multiple first data groups of the target data other than said first data sets and the contents of which are not displayed (col. 6, lines 4-51, querying a database and dividing the results into segments, which Examiner interprets as an abridged form, and retrieving partial or minimal segments of a smaller portion of data)

It would have been obvious to one of ordinary skill in the art at the time of the invention of Marshall display of target data, to include abridged forms, i.e. segmented data, as disclosed in Peltonen, because reduced data conserves memory and further reduces the size of the representation of the query result.

Regarding claim 9, Marshall discloses identifying second data sets, which are included in said first data groups and the contents of which are actually . . . (a second set of records retrieved from the table in the database, col. 9, lines 14-15); identifying second data groups, which are included in said target data other than said first data sets and the contents of which are not displayed . . . (sorting the second set of records with a list box, and displaying the list box, col. 9, lines 14-33); reading said first data sets from a recording area . . . (retrieved records from a database table, which indicates a recording area);

However, it is noted that Marshall fails to disclose selecting predetermined abridged forms and presenting predetermined abridged forms that represent said second data groups in said display area.

Peltonen discloses one or multiple first predetermined abridged forms, which represent one or multiple first data groups of the target data other than said first data sets and the contents of which are not displayed (col. 6, lines 4-51, querying a database and dividing the results into segments, which Examiner interprets as an abridged form, and retrieving partial or minimal segments, which Examiner interprets as a selected predetermined abridged form, of a smaller portion of data)

Regarding claims 10 and 11, they are rejected based upon similar rational as above claims 2 and 5 respectively.

Regarding claim 12, Peltonen discloses first or second predetermined abridged forms that represent said first or second data groups respectively are presented and a

reading pointer for said target data is skipped by the number . . . of data rows of said first or second data groups . . . (col. 9, lines 11-42)

Regarding claim 13, Marshall discloses reading and displaying step is repeated until all said target data are displayed in said display area. (readable code for determining a selection, obtaining a key, notifying the other area of the key and updating the entries in the other display area to visually distinguish entries with the key from those not associated with the key, col. 3, line 60 – col. 4, line 8)

Regarding claims 14-17, see above rejection for claims 8, 9, 11 and 12 respectively. (Marshall further discloses the above method implemented in a system, col. 2, lines 49-61)

Regarding claims 18-19, see claims 8 and 9 respectively. (Marshall further discloses the above can be implemented as a computer readable medium, col. 2, lines 49-61)

Response to Arguments

7. Applicant's arguments see pages 2-5, filed 06/28/2004, with respect to the rejection(s) of claim(s) 1-19 under 102 Marshall have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of 103, Marshall in view of Pendleton.

Applicant argues that Marshall fails to disclose predetermined abridged forms in which one or more multiple first data groups of the target data are display and contents

of which are not displayed. Examiner agrees and makes a new ground of rejection of Marshall in view of Pendleton. Pendleton discloses representing a result data set having a limited amount of memory and removing data to reduce the size of the resulting data and further creating segmented data sets in which the first and last key values of the data set are retrieved.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Motilewa A. Good-Johnson whose telephone number is (703) 305-3939. The examiner can normally be reached on Monday - Friday 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mike Razavi can be reached on (703) 305-4713. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

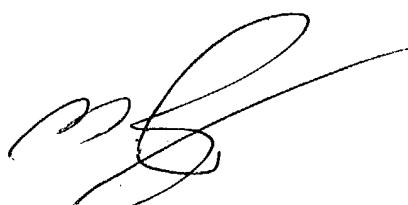
Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Motilewa A. Good-Johnson
Examiner
Art Unit 2672

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